# CLUSTER CO-SPECIALISATION MODEL

**CLUSTER**

Industrial Bio and Circular Economy

- large enterprises
- industrial activities
- bio-CE
- business models
- Lapland
- China
- Arctic issues
- transport/logistics

**IDEAS**

Tracking sensors

- waste water
- energy efficiency
- 'viable cities', smart villages
- energy storage
- fossile free fuels
- smart buildings

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NetPort Energikluster (SE)

**IDEAS**

Rural areas
Driver (freelance): efficient

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Demos Helsinki (FI)

- foresight analysis
- scenario building
- experimentation
- strategic development - companies/ public sector

knowledge on low carbon approach
- system of logistic (intelligent transport system)

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Mobile Heights (SE)

- digitalisation - IoT - power grids
- Health Tech
- Public sector (digit.)
- Sharing economy (municipal level)
- smart city-infrastructure
- business development through use of data

Tracking experience/knowledge

**IDEAS**

**"Sharing transport"**
**Smart and resilient transport of goods in rural areas**

Ensure that people living in rural areas also have access to goods.

Create hubs where goods can be picked up.

Iot expertise

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EnergyVaasa (FI)

- automation technology
- smart grid
- energy technology
- CE
- gas technology

**IDEAS**

Electrical roads
"Hop on & hop off" solution

user involvement
customer/user journey

**IDEAS**

CE / Sharing economy
Hub: pick up goods

SMART = context-based
- autonomous
- sustainable
- efficient

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D2i - Design to innovate (DK)

- design methods
- cross-sectorial
- play, CE, digitalisation

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